

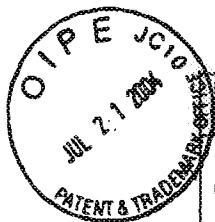
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PTO/SB/06A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET OF

Complete if Known

Application Number: 10/645,426

Filing Date: 8/21/03

First Named Inventor: M. Seul, et al.

Group Art Unit:

Examiner Name:

Attorney Docket Number: LEAPS C11

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PTD	US 3,571,614 A		Carreira	04/13/1997
PTM	US 5,510,270 A		Fodor, et al.	04/23/1996

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			
PTD		WO 96 07917 A		Nanogen	03/14/1996	
1		WO 91 19023 A		Savin Corp.	12/12/1991	
PTM		GB 2 058 379 A		AGFA GEVAERT	04/08/1981	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s).	T2
PTD		YEH, S.R., et al. "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow". <i>Nature</i> , Mar 6, 1997: 57-59. Vol 386, No 6620	
Examiner Signature			Date Considered
			4/15/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO/SB/08A (08-00)

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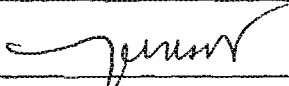
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) SHEET <input type="text"/> OF <input type="text"/>	Complete If Known	
	Application Number:	
	Filing Date:	
	First Named Inventor: M. S. ul, t al.	
	Group Art Unit:	
	Examiner Name:	
Attorney Docket Number:		

Examin er Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PVD	6,083,763		Balch	7/4/2000
	6,172,218 B1		Brenner	1/9/2001
	5,415,835		Brueck, et al.	5/16/1995
	6,429,027 B1		Chee et al.	8/6/2002
	5,532,128		Eggers et al.	7/2/1996
	5,516,635		Ekins et al.	5/14/1996
	5,961,923		Nova et al.	10/5/1999
	PTM	5,770,358		Dower

FOREIGN DOCUMENTS					
Examiner Initials	Foreign Patent Documents		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
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PM		WO 00/04372	Anstyn, et al.	1/27/2000	
		WO 99/60170	Raier, et al.	11/25/1999	
		WO 98/40726	Walt, et al.	2/8/2000	
		WO 00/03004	Fechter, et al.	1/20/2000	
		WO 00/75373	Walt et al.	12/14/2000	

Examiner Signature		Date Considered	4/15/05
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FORM PTO-1449 INFORMATION DISCLOSURE CITATION	Attorney Docket:	Serial No.:
	Applicant: Seul et al.	
	Filing Date: 10/17/00	Group Art Unit: 1

U.S. PATENT DOCUMENTS

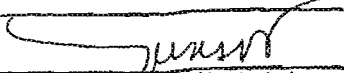
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P00	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
P00	6,429,027	08/06/02	Chee et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
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	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
P00	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

	Materials from Freedom of Information Act pertaining to David R. Walt

Examiner: 	Date Considered: 4/15/05
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: ...		SERIAL NO.:									
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael											
				FILING DATE: 1		GROUP: 1									
U.S. PATENT DOCUMENTS															
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P10	AA	4	4	0	0	0	5	2	2/12/85	Fuhrer	422	52	8/30/82		
	AB	4	0	4	7	5	4	4	3/3/87	Nicol et al.	436	518	8/25/85		
	AC	4	8	2	2	7	4	8	4/18/88	Walt	438	528	8/25/88		
	AD	4	0	0	4	3	7	3	2/18/91	Stavriopoulos et al.	435	8	7/20/89		
	AE	5	0	0	2	8	6	7	3/28/91	Macevitz	435	8	10/24/88		
	AF	5	0	2	0	5	4	5	7/2/91	Soud	438	501	8/9/88		
	AG	5	1	0	5	3	0	5	4/14/92	Batzig	358	368	1/10/91		
	AH	5	1	1	4	8	8	4	5/19/92	Walt	438	528	8/18/89		
	AI	5	1	3	2	2	4	2	7/21/92	Cheung	438	501	1/13/89		
	AJ	5	1	3	2	0	9	7	7/21/92	Van Deusen et al.	422	82.00	8/4/90		
P50	AK	5	1	4	3	8	5	3	8/1/92	Walt	438	501	2/2/89		
FOREIGN PATENT DOCUMENTS															
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	AM	0	4	7	8	3	1	0	4/1/92	EP	C12D	1/68		X	
	AN	0	7	2	3	1	4	8	7/24/88	EP	G01N	21/84		X	
P10	AO	8	8	1	1	1	0	1	11/18/88	PCT	G01N	33/548		X	
	AP	8	3	0	2	3	8	0	2/4/93	PCT	G01N	33/536		X	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)															
P10	AO	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 884-889 (1980)													
	AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).													
P10	AS	Fuh, et al. "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).													
EXAMINER											DATE CONSIDERED				
[Signature]											4/15/05				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.															

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.:

SERIAL NO.:

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 1/15/95

GROUP:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PJD	BA	5 1 0 4 3 0 0	3/16/93	Chuang	427	213.31	1/18/89
	BB	5 2 4 4 6 1 3	8/14/93	Walt et al.	436	172	4/20/92
	BC	5 2 4 4 6 3 6	8/14/93	Walt et al.	422	82.07	1/25/91
	BD	5 2 5 0 2 8 4	10/5/93	Walt et al.	422	82.07	12/21/92
	BE	5 2 5 2 4 8 4	10/12/93	Walt	438	528	3/30/92
	BF	5 2 5 4 4 7 7	10/19/93	Walt	438	172	9/19/91
	BG	5 2 8 8 7 4 1	3/28/94	Walt et al.	250	227.23	1/13/93
	BH	5 3 0 8 8 1 8	4/26/94	Prober et al.	435	8	1/18/92
	BI	5 3 2 0 8 1 4	8/14/94	Walt et al.	422	82.07	1/25/92
PJD	BJ	5 3 0 2 8 5 3	1/18/94	Carr et al.	438	165	5/8/92
	BK	5 4 0 5 7 8 4	4/11/95	Van Hoegaerden	438	523	2/25/93

FOREIGN PATENT DOCUMENTS

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PJD	BL	8 3 0 8 1 2 1	4/1/93	PCT	C07H	21/00		x
	BM	8 3 2 4 6 1 7	12/9/93	PCT	C07X			x
PJD	BN	8 7 1 4 8 2 8	4/17/97	PCT	G01N	15/18		x
	BO							
	BP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PJD	BO	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," <i>Nature</i> , vol. 353: 338-340 (1991).
	BR	Campbell, et al., "Colored and Fluorescent Solid Supports," <i>Innovation and Perspectives in Solid-Phase Synthesis</i> , Ed: I. Birmingham (Mayflower, London), pp. 459-472 (1994).
PJD	BS	Pope, "Fiber optic chemical microarrays employing optically active silica microspheres," <i>SPIE</i> , vol. 2388: 245-258 (1995).

EXAMINER

DATE CONSIDERED

4/15/05

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FORM PTO-1449 (REV. 7-80)	U.S. PATENT AND TRADEMARK OFFICE	JACKET NO.	SERIAL NO.
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT(S): SEUL, Michael	
		FILING DATE: October 11, 1995	GROUP:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PTD	CA	5 8 8 0 7 2 2	1/18/88	Kleiner et al.	428	441	5/17/84
	CB	5 8 1 4 5 2 4	8/29/88	Wahl et al.	438	518	12/14/85
	CC	5 4 8 8 8 8 7	3/3/88	Papa	250	227.21	1/3/84
	CD	5 5 1 2 4 8 0	4/30/88	Wahl et al.	438	171	8/11/84
	CE	5 8 8 5 3 2 4	10/18/88	Birn et al.	435	8	4/13/84
	CF	5 8 8 2 8 2 7	10/23/88	Lehman	438	518	11/5/83
	CG	5 8 3 3 7 2 4	8/27/87	Kang et al.	358	445	8/23/85
	CH	5 8 3 3 8 7 7	8/27/87	Wahl et al.	385	118	11/29/85
	CI	5 8 6 0 4 8 4	7/23/87	Lam et al.	530	334	8/19/81
	CJ	5 8 8 2 0 5 8	7/29/87	Mahood	428	403	1/25/85
PTD	CK	5 8 7 4 8 9 8	8/7/87	Papirer et al.	435	7.82	3/30/87

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
CL						
CM						
CN						
CU						
CP						

OTHER PRIOR ART: (See Remarks)

Person

4/15/05

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 42 11 2000

SERIAL NO.:

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

GROUP: 1

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PJO	DA	5 8 8 0 8 8 4	11/25/97	Pinkel et al.	422	68.1	5/23/95
	DB	5 7 0 0 8 8 7	12/23/97	Klainer et al.	528	15	5/30/95
	DC	5 7 7 8 8 7 8	7/14/98	Leland et al.	422	52	6/5/95
	DD	5 8 3 8 0 2 1	8/17/98	Hansen et al.	422	55	1/23/97
	DE	5 8 8 1 8 2 3	10/5/98	Horo et al.	422	68.1	8/30/96
	DF	5 8 8 5 4 5 2	10/12/99	Kovacs	438	149	7/9/98
	DG	8 0 4 8 8 8 0	4/11/00	Hader et al.	435	8	5/14/97
	DH	8 0 8 0 5 4 5	7/18/00	Wohlschlag et al.	435	8	3/6/97
	DI	8 0 8 0 8 1 2	7/18/00	Lebl et al.	530	300	1/12/98
PJO	DJ	8 2 0 0 7 3 7	3/13/01	Wah et al.	430	320	8/24/95
	DK						

FOREIGN PATENT DOCUMENTS

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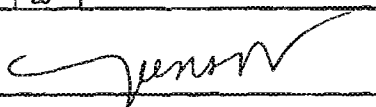
OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

PJO	DQ	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-738 (1997)
	DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMatrix system," Clinical Chemistry, vol. 43:9, pp. 1748-1756 (1997).
PJO	DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).

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DATE CONSIDERED

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: _____		SERIAL NO.: _____	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael			
				FILING DATE: _____ 2/10/00		GROUP: _____	
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	EL						
	EM						
	EN						
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	EP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PTD	EQ	Healey et al, "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).					
PTD	ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)					
	ES						
EXAMINER 				DATE CONSIDERED 4/15/05			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 4

SERIAL NO.: 00000000

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 7

GROUP: 1000

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
P70	AA	4	7	1	7	6	5	5		01/05/88	Fuhrlyer	435	7	10/15/84
	AB	5	5	7	3	9	0	8		11/12/88	Singer et al.	435	8	05/20/94
	AC	5	5	8	5	0	6	8		12/17/88	Zanzucchi et al.	422	100	11/10/94
	AD	5	5	8	3	8	3	8		01/14/87	Zanzucchi et al.	435	6	05/31/95
	AE	5	7	2	3	2	1	8		03/03/88	Haugland et al.	428	402	06/07/95
	AF	5	7	4	4	3	0	5		04/28/88	Fodor et al.	435	8	05/06/95
	AG	5	8	0	7	7	5	5		08/15/88	Ekins	436	518	05/23/95
	AH	5	8	3	7	5	5	1		11/17/88	Ekins	436	518	12/23/94
	AI	5	8	7	4	2	1	8		02/23/88	Rava et al.	435	8	04/08/96
	AJ	5	8	8	8	8	3	5		11/23/88	Dundley et al.	435	7.2	02/27/97
P70	AK	6	0	2	3	5	4	0		02/08/00	Walt et al.	385	12	03/14/97

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P70	AL	8	5	1	2	8	0	8		05/11/95	PCT	G01N	21/00		X
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	AN	8	7	4	0	3	8	3		10/30/97	PCT	G01N	33/543		X
P70	AO	8	8	0	6	0	0	7		02/12/98	PCT	G03F	7/00		X
	AP	8	8	5	3	3	0	0		11/26/98	PCT	G01N	21/00		X

OTHER PRIOR ART (Including Author, Title, Date, Patent Pages, Etc.)

P70	AR	Michaletto et al., <i>Langmuir</i> , vol. 11, 3333-3336 (1995)
P70	AS	Hagayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1993)
	AT	

EXAMINER

DATE CONSIDERED

24/15/05

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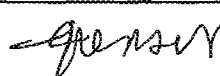
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				FILING DATE:		GROUP:	

U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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PTD	AA	3	8	8	8	5	2	5	12/21/78	Giglio	350	180	08/21/75	
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	AI	5	8	5	5	7	5	3	01/05/89	Trau et al.	204	484	11/28/96	
	AJ	6	0	3	3	6	4	7	03/07/80	Trau et al.	204	822	01/04/99	
	AK													

FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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PTD	AL	8	8	0	4	5	4	7	02/15/88	PCT	G01N	27/00		X	
	AM														
	AN														
	AO														
	AP														

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
PTD	AR Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 388.6: 57-59 (1997)
PTD	AS Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336
PTD	AT Sed et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 282: 558-560 (1993)
<div style="display: flex; justify-content: space-between;"> <div>EXAMINER </div> <div>DATE CONSIDERED 4/15/05</div> </div>	

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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: SEUL, Michael FILING DATE: October 1, 2000 GROUP: 1				
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA					
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FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	BG					
	BH					
	BI					
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
PJ	BJ	Tsu et al., "Fluid-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272: 708-708 (1998)				
	BK	Seul et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 287: 478-483 (1995)				
	BL	Schara et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 278: 487-470 (1995)				
	BM	Heab et al., "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18): 3253-3258 (1995)				
	BN	Richetti, et al., <i>J. Physique Lett.</i> , vol. 45: L-1137 to L-1143 (1984)				
PJ	BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 382-430 (2nd Edition) (Wiley Interscience 1981)				
	BP					
	BO					
	BR					
EXAMINER		DATE CONSIDERED				
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